

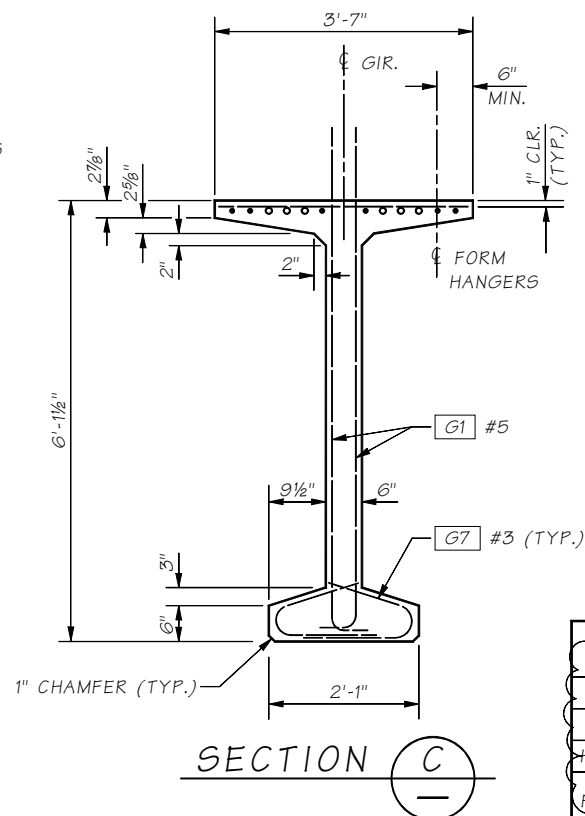
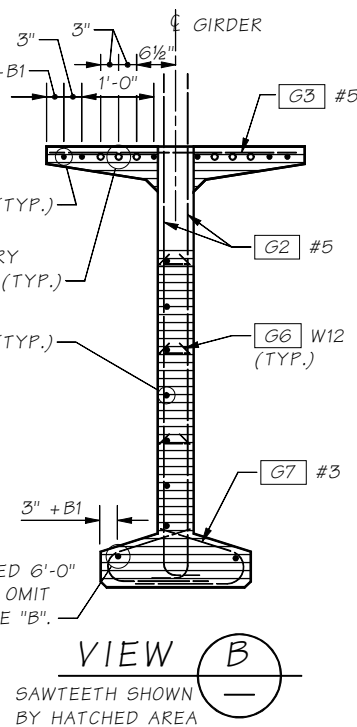
### TYPICAL END ELEVATION

END TYPE C SHOWN, OTHER END TYPES SIMILAR.

P FIELD BENDING REQUIRED TO OBTAIN 1 1/2" CONCRETE COVER AT PAVEMENT SEAT.

(stirrup spacing shall be determined by the designer)

FOR END TYPE "C"	
ENDS AHEAD ON STATION	
[G5] BARS LEFT OF $\bar{\epsilon}$	
B1 = 0" ([G4], [G8])	
B2 = 0" ([G5])	
ENDS BACK ON STATION	
[G5] BARS RIGHT OF $\bar{\epsilon}$	
B1 = 1 1/2" ([G4], [G8])	
B2 = 3" ([G5])	

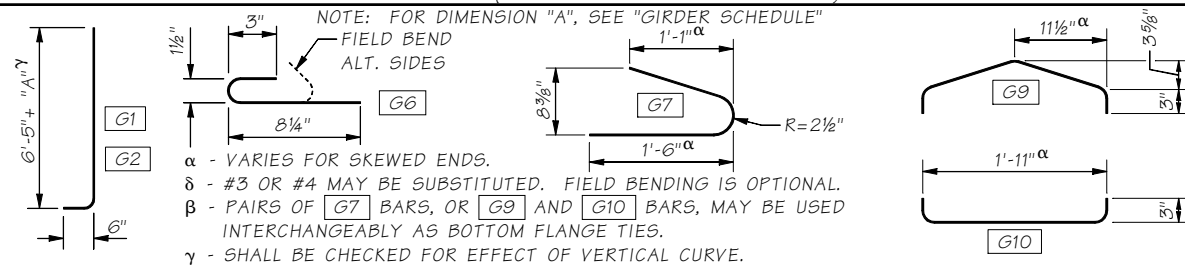


- NOTES**
1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
  2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE [1/2"Ø OR 0.6"Ø] LOW RELAXATION STRANDS (AASHTO M203 GRADE 270.)
  3. FOR END TYPES A, C AND D, CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN. FOR END TYPE B CUT ALL STRANDS 1" BELOW CONCRETE SURFACE AND GROUT WITH AN APPROVED EPOXY GROUT.
  4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
  5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
  6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
  7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
  8. TEMPORARY STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)J OF THE STANDARD SPECIFICATIONS. IF PRETENSIONED, THESE TEMPORARY STRANDS SHALL BE UNBONDED OVER ALL BUT THE END 10'-0" OF THE GIRDER LENGTH. AS AN ALTERNATE, TEMPORARY STRANDS MAY BE POST-TENSIONED ON THE SAME DAY THE PRETENSIONING IS RELEASED INTO THE GIRDER.

INTERMEDIATE DIAPHRAGM:  
1/4 points of span for span lengths over 120'-0".  
1/3 points of span for span lengths 80'-0" to 120'-0".  
1/2 points of span for span lengths less than 40'-0" to 80'-0".

Diaphragm Type	END TYPE	BEARING RECESS	X	Y	Z	SAWTEETH
End Diaph. on Girder	A	YES	1'-10"	1'-6"	9"	YES
"L" Abutment	B	YES	0"	0"	0"	NO
Hinge Diaph. @ Intermediate Pier	C	NO	1'-10"	1'-6"	9"	YES
Fixed Diaph. @ Intermediate Pier	D	NO	1'-10"	ALT. 1 OR ALT. 2	STRAND EXTENSION	YES

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)



Bridge Design Engr.	M:\STANDARDS\Girders\I-Girders\W74G\W74G1.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By		JOB NUMBER				
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

Tue Apr 29 13:13:58 2008

**BRIDGE AND STRUCTURES OFFICE**



**Washington State Department of Transportation**

**STANDARD PRESTRESSED CONCRETE GIRDERS**

W74G GIRDER  
DETAILS 1 OF 3

BRIDGE SHEET NO.  
SHEET  
OF  
SHEETS